BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No 09 in Vidyaranyapura sub Division.**

							Estimate Cost:		4900000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	Drain Desilting								
	2nd Main Road		2	75.00	0.60	0.45	40.50		
	6th Cross Narasipura Layout		2	75.00	0.60	0.45	40.50		
	6th A Cross Narasipura Layout		2	122.00	0.60	0.45	65.88		
	5th Cross Narasipura Layout		2	43.00	0.60	0.45	23.22		
	5th A Cross Narasipura Layout		2	125.00	0.60	0.45	67.50		
	4th Cross Narasipura Layout		2	125.00	0.60	0.45	67.50		
	Durga Temple Road		2	200.00	0.60	0.45	108.00		
	Cross Road 1		2	250.00	0.45	0.35	78.75		
	Cross Road 2		2	120.00	0.45	0.35	37.80		
	9th Cross Road		2	145.00	0.45	0.35	45.68		
	12th Cross Road		2	190.00	0.45	0.35	59.85		
	Berm Cutting								
	2nd Main Road		2	75.00	1.00	0.20	30.00		
	6th Cross Narasipura Layout		2	75.00	1.00	0.20	30.00		
	6th A Cross Narasipura Layout		2	122.00	1.00	0.20	48.80		
	5th Cross Narasipura Layout		2	43.00	1.00	0.20	17.20		
	5th A Cross Narasipura Layout		2	125.00	1.00	0.20	50.00		
	4th Cross Narasipura Layout		2	125.00	1.00	0.20	50.00		
	Durga Temple Road		2	200.00	1.00	0.20	80.00		
	Cross Road 1		2	250.00	1.00	0.20	100.00		
	Cross Road 2		2	120.00	1.00	0.20	48.00		
	9th Cross Road		2	145.00	1.00	0.20	58.00		
	12th Cross Road		2	190.00	1.00	0.20	76.00		
	Culvert		1	9.00	2.00	1.20	21.60		
							1244.78	75.60	**94105.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	2nd Main Road		2	75.00	0.90		135.00		
	6th Cross Narasipura Layout		2	75.00	0.90		135.00		
	6th A Cross Narasipura Layout		2	122.00	0.90		219.60		
	5th Cross Narasipura Layout		2	43.00	0.90		77.40		
	5th A Cross Narasipura Layout		2	125.00	0.90		225.00		
	4th Cross Narasipura Layout		2	125.00	0.90		225.00		
	Durga Temple Road		2	200.00	0.90		360.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Cross Road 1		2	250.00		1.35	675.00		
	Cross Road 2		2	120.00		1.35	324.00		
	9th Cross Road		2	145.00		1.35	391.50		
	12th Cross Road		2	190.00		1.35	513.00		
							3280.50	58.32	**191319.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				**3280.50**	75.60	**248006.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	Culvert		1	9.00	2.00	0.15	2.70		
							2.70	4847.04	**13087.00**
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	**4847.04**							
5	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.12 / PWD SR 2014-15**	Cum							
	Culvert		2	9.00	0.60	0.90	9.72		
							9.72	4773.60	**46399.00**
	Basic Rate	4420.00							
	Area Weightage @8%	353.60							
	Total	**4773.60**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with ment @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	Culvert Coping		1	9.00	1.80	0.10	1.62		
	Ramp		2	9.00	1.00	0.15	2.70		
							4.32	4773.60	**20622.00**
	Basic Rate	4420.00							
	Area Weightage @8%	353.60							
	Total	**4773.60**							
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2014-15**	Sqm							
	Covering Bottom		1	9.00	0.60		5.40		
	Covering Sides		1	9.00		0.25	2.25		
			1	1.80		0.25	0.45		
							8.10	292.68	**2371.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
8	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
	Covering Slab		1	9.00	1.80	0.23	3.73		
							3.73	6065.28	**22599.00**
	Basic Rate	5616.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
9	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
			0.090	3.73			**0.34**	78351.84	**26275.00**
	Basic Rate	72548.00							
	Area Weightage @ 8%	5803.84							
	Total	**78351.84**							
10	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 143 / Item No. 19.53 / PWD SR 2014-15**	Sqm							
	2nd Main Road		2	75.00	2.00		300.00		
	6th Cross Narasipura Layout		1	75.00	5.50		412.50		
	6th A Cross Narasipura Layout		1	122.00	5.50		671.00		
	5th Cross Narasipura Layout		1	43.00	5.50		236.50		
	5th A Cross Narasipura Layout		1	125.00	5.50		687.50		
	4th Cross Narasipura Layout		1	125.00	5.50		687.50		
	Durga Temple Road		1	200.00	5.50		1100.00		
	Cross Road 1		1	250.00	6.00		1500.00		
	Cross Road 2		1	120.00	6.00		720.00		
	9th Cross Road		1	145.00	5.00		725.00		
	12th Cross Road		1	190.00	6.00		1140.00		
							8180.00	22.68	**185522.00**
	Basic Rate	21.00							
	Area Weightage @ 8%	1.68							
	Total	**22.68**							
11	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15.**	Cum							
	2nd Main Road		2	75.00	2.00	0.20	60.00		
	6th Cross Narasipura Layout		1	75.00	5.50	0.15	61.88		
	6th A Cross Narasipura Layout		1	122.00	5.50	0.15	100.65		
	5th Cross Narasipura Layout		1	43.00	5.50	0.15	35.48		
	5th A Cross Narasipura Layout		1	125.00	5.50	0.15	103.13		
	4th Cross Narasipura Layout		1	125.00	5.50	0.15	103.13		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Durga Temple Road		1	200.00	5.50	0.15	165.00		
	Cross Road 1		1	250.00	6.00	0.15	225.00		
	Cross Road 2		1	120.00	6.00	0.15	108.00		
	9th Cross Road		1	145.00	5.00	0.15	108.75		
	12th Cross Road		1	190.00	6.00	0.15	171.00		
							1242.00	1438.56	**1786692.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
12	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	2nd Main Road		1	75.00	10.00		750.00		
	6th Cross Narasipura Layout		1	75.00	5.50		412.50		
	6th A Cross Narasipura Layout		1	122.00	5.50		671.00		
	5th Cross Narasipura Layout		1	43.00	5.50		236.50		
	5th A Cross Narasipura Layout		1	125.00	5.50		687.50		
	4th Cross Narasipura Layout		1	125.00	5.50		687.50		
	Durga Temple Road		1	200.00	5.50		1100.00		
	Cross Road 1		1	250.00	6.00		1500.00		
	Cross Road 2		1	120.00	6.00		720.00		
	9th Cross Road		1	145.00	5.00		725.00		
	12th Cross Road		1	190.00	6.00		1140.00		
							8630.00	31.32	**270292.00**
	asper Revised Basic Rate	29.00							
	Area Weightage @ 8%	2.32							
	Total	**31.32**							
13	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **with 100-120 TPH capacityH.M.P with sensor paver Gr-II (25 mm to 30 mm) with 5 % VG-30 Bitumen Page No. 159 / Item No. 21.20.2 / PWD SR 2014-15**	Cum							
	2nd Main Road		1	75.00	10.00	0.025	18.75		
	Depression Filling @ 15%						2.81		
	6th Cross Narasipura Layout		1	75.00	5.50	0.025	10.31		
	6th A Cross Narasipura Layout		1	122.00	5.50	0.025	16.78		
	5th Cross Narasipura Layout		1	43.00	5.50	0.025	5.91		
	5th A Cross Narasipura Layout		1	125.00	5.50	0.025	17.19		
	4th Cross Narasipura Layout		1	125.00	5.50	0.025	17.19		
	Durga Temple Road		1	200.00	5.50	0.025	27.50		
	Cross Road 1		1	250.00	6.00	0.025	37.50		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Cross Road 2		1	120.00	6.00	0.025	18.00		
	9th Cross Road		1	145.00	5.00	0.025	18.13		
	12th Cross Road		1	190.00	6.00	0.025	28.50		
							218.56	8475.84	**1852501.00**
	as per Revised Basic Rate	7848.00							
	Area Weightage @ 8%	627.84							
	Total	**8475.84**							
14	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**1244.78**	73.57	**91578.00**
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
15	Sub Total								**4851368.00**
16	For Third Part QC inspection Charges @ 1% of Estimate Cost								**48514.00**
17	Miscellaneous and other Charges	L/S							**118.00**
								Total	**4900000.00**
	(Rupees Fourty Nine Lakhs)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
N-03

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs 4,9,10 lacs
Rupees Forty nine lacs
Under P-3089

Technical Sanction
Accorded For 49.00 lakh Rs
Head of A/C P-3089
CER NO : 49 Dt : 21.08.15

TA CE (YNK)

Registered as EE ( ) No 5 9
Subject to conditions contained in
enclosed memo EE ( ) No /9/
Dt 3(4)/20/8/15 Estimate A/Sanctioned
dated 20/8/2015 No 3/2015-16
Rs 20/8/2015

Joint Commissioner
(Yelahanka Zone)
BBMP Bengaluru-92